

A & G Residential  
916 Arsenal Ave  
Suite B  
Fayetteville, NC 28305

11/10/2025

Attention : Austin Smith  
Chad Stewart  
Jamie Godwin  
Jenn Wagner

**RE:** Daily Field Report for 11/07/2025  
Lot 24 Jaylin Oaks (CMT) Spring Lake, NC  
Building & Earth Project No : RD250974

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

**FO-1** : Field Observations made on this date.

• Foundation inspection	Passed
• Project Management Review	Passed

Comment 1 : Compact the surface soils before the placement of concrete.

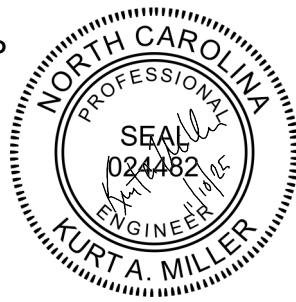
**ST-1** : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTMD1556, using the results of field one-point as compared to the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

## Closing

**The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.**

Respectfully Submitted,  
Building & Earth Sciences, LLP

1027 US Highway 70 West  
Garner, NC 27529  
Phone 910-292-2085 Fax 910-292-2192  
[www.BuildingandEarth.com](http://www.BuildingandEarth.com)



Digitally signed by:  
- Rachael Heath  
- 11/10/2025  
- 09:39:12

*Rachael Heath*

Reviewed By

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**Enclosures : FO-1, ST-1**

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Geovault, LLC.

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- 09:39:12

*Rachael Heath*

Reviewed By

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## Field Observations Report

Project Name:	<b>Lot 24 Jaylin Oaks (CMT) Spring Lake, NC</b>	Project Number:	<b>RD250974</b>
Client Name:	<b>A &amp; G Residential</b>	Placement#:	<b>FO-1</b>
Contractor:	<b>A &amp; G Residential</b>	Technician:	<b>Brantley Brinn</b>
Monitoring:	<b>DCP</b>		

### 1 : Foundation inspection

Passed

We arrived onsite to evaluate the building pad area for this residential lot. We understand the residence has been designed to be supported on a stem wall foundation. Our evaluation as documented in this report includes:

- 1) A visual description of the residential lot
- 2) Comments on any improvements that affect the foundations of the residence
- 3) Hand rod probing of the footing excavations
- 4) Performing Dynamic Cone Penetration (DCP) tests at representative locations
- 5) Soil Density tests on fill, if applicable.

#### Visual Description of the Lot:

The lot is sloped front to back. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 3 feet. Surface water runoff appears to drain to the back.

#### Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 8 inches of topsoil has been removed from the building pad area.

Structural fill has been placed at the site to level the building pad. Based on our observations, we understand the pad has been filled according to the following:

Section-----Thickness of Fill  
 Left Front-----12 inches of fill  
 Left Rear-----24 inches of fill  
 Center-----18 inches of fill  
 Right Front-----12 inches of fill  
 Right Rear-----24 inches of fill

Hand Rod Probing: Our representative performed hand rod probing of the surface of the building pad. Hand rod probing of the bearing material generally showed an average penetration of approximately 2 inches.

DCP Testing: Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at four representative locations to a depth of 36 inches. Our representative did not observe water within the DCP boreholes as noted below.

The following information provides the results of our hand auger borings and DCP testing:

#### Test 1: [Right]

-- Depth---"N"-----Soil Color---USCS-----  
 --- FSG ---- 7 ----- orange ----- SC/SM -----  
 --- -1' ----- 9 ----- orange ----- SC/SM -----  
 --- -2' ----- 11 ----- orange/tan ----- SC/SM -----  
 --- -3' ----- 10 ----- dark brown/tan ----- SC/SM -----

## Field Observations Report

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Contractor:	<b>A &amp; G Residential</b>	Technician:	<b>Brantley Brinn</b>
Monitoring:	<b>DCP</b>		

### Test 2: [Left]

--- FSG ---- 7 ----- orange ----- SC/SM -----  
 --- -1' ----- 6 ----- orange ----- SC/SM -----  
 --- -2' ----- 15 ----- dark gray/tan----- SC/SM -----  
 --- -3' ----- 10 ----- tan ----- SC/SM -----

### Soil Density Testing:

Soil density testing was performed using the sand cone method of compaction in general accordance with ASTM D1556. The results of our tests are attached as ST-1.

### Results:

Based on our observations and test results, the newly placed fill/existing soils appear to be suitable to provide support for the floor slab and footings, provided the floor slab has a loading of less than 150 pounds per square foot, and the footings have a design bearing capacity of 2,000, or less.

### Recommendations:

To minimize the potential for future softening of the bearing materials due to water infiltration, the surface soils should be protected from construction traffic and inclement weather. The construction of the footings and structure should commence without delay. In the event that the subgrade soils become wet, or otherwise compromised from their current condition, should be observed and retested as necessary by Building and Earth Sciences.

We note that our testing was isolated to the upper 3 feet of the soil profile from the finished subgrade elevation as observed on this date. As such, we cannot be aware of any soil or groundwater conditions below this depth that could adversely affect the support of the new construction. If additional information is required, please contact our office.

We are also not aware of any geotechnical work that may have been performed prior to our arrival onsite. If a geotechnical report is available, please forward it to our office for review. If no report is available, our client accepts all liability for long and short term performance of the foundations.

### 2 : Project Management Review

Passed

Our client has authorized Building & Earth Sciences to perform an evaluation of the prepared building pad for this project. The structure has a stem wall foundation, and the foundation walls have been backfilled to the slab grade using structural fill soils. It appears that between 1.5 and 2.5 feet of structural fill soils have been placed to achieve the slab grade. The intent of our testing was to determine if the newly placed structural fill soils have been compacted to 95% to support the floor slab and the interior lug footings.

Our evaluation included hand rod probing the entire area for consistency, performing hand auger borings with DCPs, and performing in place density tests to confirm compaction. Based upon our hand rod probing, the surface soils are firm and resistant to penetration.

## Field Observations Report

Project Name:	<b>Lot 24 Jaylin Oaks (CMT) Spring Lake, NC</b>	Project Number:	<b>RD250974</b>
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Contractor:	<b>A &amp; G Residential</b>	Technician:	<b>Brantley Brinn</b>
Monitoring:	<b>DCP</b>		

At selected locations, hand auger borings were advanced at 2 locations within the backfilled area. At 12-inch increments in the hand auger boring, to a depth of 3 feet, Dynamic Cone Penetrometer (DCP) Testing was performed in accordance with ASTM STP-399. With proper evaluation, DCP Testing can be correlated to both bearing capacity and percent compaction. Based upon our testing, the soils below the surface have been compacted properly at the locations tested.

While on site, our representative also performed in place density testing to confirm compaction of the surface soils. Our testing was performed using the sand cone method in general accordance with ASTM D-1556. Our results were compared to an in-field proctor that was performed in general accordance with ASTM D-698.

Therefore based upon the results of our testing, the newly placed fill soils have been compacted adequately to provide support for the interior lug foundations and the floor slab. It is important to note that structural inspections were not within our scope of work for this project. As such, we are not able to comment on the construction of the foundation wall.

### Comments

Comment	Log Date	Log Time
Compact the surface soils before the placement of concrete.	11/10/2025	09:36:05

**Report of Field Density Testing**

Project Name: Lot 24 Jaylin Oaks (CMT) Spring Lake, NC      Ambient Temperature: 60-80  
 Project Number: RD250974      Weather: Clear  
 Project Location: Spring Lake, NC      Wind Conditions: Breezy  
 Client: A & G Residential      Results Provided To: N/R  
 Contractor: A & G Residential      Superintendent: N/R

Notes:

- 1 Test location by technician
- 2 Elevation by Technician
- 3 Fill/backfill placed prior to technician arriving

**Design & Specification Data**

Area ID	Area Description	Depth (ft)	Test Method	% Compaction	Moisture Range	
					Min	Max
FSG-Bldg	Finished Subgrade Soils -Building	0.0 - 2.0	ASTM D-698	95 %	- 10.0	+ 10.0

**Laboratory Proctors**

Proctor ID	Description of Material	USCS/AASHTO	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
1-point			117.0	13.0%

**Density Test Data**

Test #	Area	IDs Proctor	Test Type	Location	Probe Depth (in)	Elev. (ft)	Wet Density (pcf)	% Moisture	Dry Density (pcf)	% Compaction	Result
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Center of lot		FSG	129.9	14.2	113.7	97%	PASS

Equipment Used:

Standard Counts:

Density:

Last Calibration:

Moisture:



ST-1

Test Date: 11/07/2025  
Field Technician: Brantley Brinn  
Tests requested by: N/R  
Results provided to: N/R

## Photographs

Picture ID	Front
118316	
Picture ID	Back
118317	